

DNAxPAb

Hard-to-Find
Antibody

ALDH4A1 DNAxPab

Catalog # H00008659-W01P

Size 200 ug

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human ALDH4A1 DNA using DNAx™ Immune technology.
Technology	DNAx™ Immune
Immunogen	Full-length human DNA
Sequence	MLLPAPALRRALLSRPWTGAGLRWKHTSSLKVANEPVLAFTQGSPERDALQKALKDLKGRMEAI PCVVGDEEVWTSADVQYQVSPFNHGHKVAKFCYADKSLNKAIEAALAARKEWDLKPIADRAQIFL KAADMLSGPRRAEILAKTMVGQGKTVIQAEIDAAAEIDFFRFNAKYAVELEGQQPISVPPSTNSTV YRGLEGFVAAISPFNFTAIGGNLAGAPALMGNVVLWKPSDTAMLASYAVYRILREAGLPPNIIQFVP ADGPLFGDVTTSSEHLCGINFTGSVPTFKHLWKQVAQNLDRFHTFPRLAGECGGKNFHFVHRSA DVESVSGTLRSAFEYGGQKCSACSRLYVPHSLWPQIKGRLL EEHSRIKVGDP AEDFGTFFSAVI DAKSFARIKKWLEHARSSPSLTILAGGKCDDSVGYFVEPCIVESKDPQEPIMKEEIFGPVLSVYVY PDDKYKETLQLVDSTTSYGLTGAVFSQDKDVVQEATKVL RNAAGNFYINDKSTGSIVGQQPF GGA RASGTNDKPGGPHYLRWTSPQVIKETHKPLGDWSYAYMQ
Host	Rabbit
Reactivity	Human
Purification	Protein A
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- Immunofluorescence (Transfected cell)
- Flow Cytometry (Transfected cell)

Gene Info — ALDH4A1

Entrez GeneID [8659](#)

GeneBank Accession# [NM_003748.2](#)

Protein Accession# [NP_003739.2](#)

Gene Name ALDH4A1

Gene Alias ALDH4, P5CD, P5CDh, P5CDhL, P5CDhS

Gene Description aldehyde dehydrogenase 4 family, member A1

Omim ID [239510 606811](#)

Gene Ontology [Hyperlink](#)

Gene Summary This protein belongs to the aldehyde dehydrogenase family of proteins. This enzyme is a mitochondrial matrix NAD-dependent dehydrogenase which catalyzes the second step of the proline degradation pathway, converting pyrroline-5-carboxylate to glutamate. Deficiency of this enzyme is associated with type II hyperprolinemia, an autosomal recessive disorder characterized by accumulation of delta-1-pyrroline-5-carboxylate (P5C) and proline. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq]

Other Designations OTTHUMP00000002544|OTTHUMP00000002545|P5C dehydrogenase|aldehyde dehydrogenase 4A1|mitochondrial delta-1-pyrroline 5-carboxylate dehydrogenase

Pathway

- [Alanine](#)
- [Arginine and proline metabolism](#)
- [Metabolic pathways](#)

Disease

- [Adenocarcinoma](#)

- [Esophageal Neoplasms](#)
- [Hearing Loss](#)